

ABSTRACT OF THE DISCLOSURE

A method of designing a new anti-CMV drug is disclosed. In one embodiment, the invention comprises (a) analyzing the binding of glycoprotein O to a glycoprotein O receptor and (b) designing a candidate drug that would competitively interfere with glycoprotein O binding to glycoprotein O receptor and (c) showing that the candidate drug competitively inhibits glycoprotein O binding to glycoprotein O receptor. A method of screening anti-CMV drugs, a vaccine effective to diminish CMV infection, and a method of diminishing CMV infection are also disclosed.